

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT05003TAT	FOR FURTHER ACTION	
	See item 4 below	
International application No. PCT/JP2005/002217	International filing date (<i>day/month/year</i>) 15 February 2005 (15.02.2005)	Priority date (<i>day/month/year</i>) 16 February 2004 (16.02.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant TOKYO ELECTRON LIMITED		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I Basis of the report
<input type="checkbox"/>	Box No. II Priority
<input type="checkbox"/>	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input checked="" type="checkbox"/>	Box No. VI Certain documents cited
<input type="checkbox"/>	Box No. VII Certain defects in the international application
<input type="checkbox"/>	Box No. VIII Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

Date of issuance of this report 19 September 2006 (19.09.2006)
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Authorized officer

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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)
Applicant's or agent's file reference PCT05003TAT		FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/JP2005/002217	International filing date (day/month/year) 15.02.2005	Priority date (day/month/year) 16.02.2004
International Patent Classification (IPC) or both national classification and IPC		
Applicant TOKYO ELECTRON LIMITED		

<p>1. This opinion contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input checked="" type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>
<p>2. FURTHER ACTION</p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p> <p>3. For further details, see notes to Form PCT/ISA/220.</p>

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002217

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material
 in written format
 in computer readable form
 - c. time of filing/furnishing
 contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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International application No.
PCT/JP2005/002217

Box No. V	<u>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</u>																									
<p>1. Statement</p> <table> <tr> <td>Novelty (N)</td> <td>Claims</td> <td><u>2-4, 6-13, 15</u></td> <td>YES</td> </tr> <tr> <td></td> <td>Claims</td> <td><u>1, 5, 14</u></td> <td>NO</td> </tr> <tr> <td>Inventive step (IS)</td> <td>Claims</td> <td><u>2-4, 6-13, 15</u></td> <td>YES</td> </tr> <tr> <td></td> <td>Claims</td> <td><u>1, 5, 14</u></td> <td>NO</td> </tr> <tr> <td>Industrial applicability (IA)</td> <td>Claims</td> <td><u>1-15</u></td> <td>YES</td> </tr> <tr> <td></td> <td>Claims</td> <td></td> <td>NO</td> </tr> </table>			Novelty (N)	Claims	<u>2-4, 6-13, 15</u>	YES		Claims	<u>1, 5, 14</u>	NO	Inventive step (IS)	Claims	<u>2-4, 6-13, 15</u>	YES		Claims	<u>1, 5, 14</u>	NO	Industrial applicability (IA)	Claims	<u>1-15</u>	YES		Claims		NO
Novelty (N)	Claims	<u>2-4, 6-13, 15</u>	YES																							
	Claims	<u>1, 5, 14</u>	NO																							
Inventive step (IS)	Claims	<u>2-4, 6-13, 15</u>	YES																							
	Claims	<u>1, 5, 14</u>	NO																							
Industrial applicability (IA)	Claims	<u>1-15</u>	YES																							
	Claims		NO																							
<p>2. Citations and explanations:</p> <p>Document 1: JP 2003-059919 A (Ulvac Corp), 28 February 2003, full text (Family: none) Document 2: JP 2003-168681 A (Ulvac Corp), 13 June 2003, full text (Family: none) Document 3: JP 2004-259581 A (Shimadzu Corp), 16 September 2004, full text (Family: none)</p> <p>The inventions of claims 1, 5, and 14 are described in document 1 and document 2 cited in the ISR, and therefore do not appear to possess novelty or to involve an inventive step. The sleeve 117 described in both document 1 and document 2 is equivalent to the drooping portion of the invention of the present application. The region surrounded by the sleeve is a recession.</p> <p>The inventions of claims 2-4, 6-13, and 15 are neither described in any of the documents cited in the ISR, nor are they obvious to a person skilled in the art.</p>																										

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. VI Certain documents cited			
1. Certain published documents (Rule 43bis.1 and 70.10)			
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2004-311510 A	04.11.2004	02.04.2003	
[E, X]			
JP 2005-063986 A	10.03.2005	08.08.2003	
[E, X]			
JP 2005-100931 A	14.04.2005	28.05.2004	04.09.2003
[E, X]			
2. Non-written disclosures (Rule 43bis.1 and 70.9)		Date of written disclosure referring to non-written disclosure (day/month/year)	
Kind of non-written disclosure	Date of non-written disclosure (day/month/year)		